

EXHIBIT F

Cisco Summary Exhibit Output Copying

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<p>Command Examples This example shows the output from the <code>show port-security</code> command when you do not enter any options:</p> <pre> Router# show port-security Secure Port MaxSecureAddr CurrentAddr SecurityViolation Security Action (Count) (Count) (Count) ----- Fa5/1 11 11 0 Shutdown Fa5/5 15 5 0 Restrict Fa5/11 5 4 0 Protect </pre> <p>Total Addresses in System: 21 Max Addresses limit in System: 128 Router#</p> <p>Cisco IOS Security Command Reference Commands S to Z, IOS 15.2, at 692</p>	<pre> switch(config)#clear mac address-table dynamic interface ethernet 7 switch(config)#show port-security Secure Port MaxSecureAddr CurrentAddr SecurityViolation Security Action (Count) (Count) (Count) ----- Et7 2 2 0 Shutdown </pre> <p>Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 632.</p> <p>See also Arista User Manual v. 4.13.6F (4/14/2014), at 624; Arista User Manual v. 4.12.3 (7/17/13), at 501; Arista User Manual, v. 4.11.1 (1/11/13), at 405-06; Arista User Manual v. 4.10.3 (10/22/12), at 336.</p>
<pre> Router# show interface cbr 6/0 CBR6/0 is up, line protocol is up Hardware is DCU MTU 0 bytes, BW 1544 Kbit, DLY 0 usec, rely 255/255, load 248/255 Encapsulation ET ATMCES T1, loopback not set Last input 00:00:00, output 00:00:00, output hang never Last clearing of "show interface" counters never Queueing strategy: fifo Output queue 0/0, 0 drops; input queue 0/75, 0 drops 5 minute input rate 1507000 bits/sec, 3957 packets/sec 5 minute output rate 1507000 bits/sec, 3955 packets/sec 3025960 packets input, 142220120 bytes, 0 no buffer Received 0 broadcasts, 0 runs, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 3030067 packets output, 142413149 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 output buffer failures, 0 output buffers swapped out </pre> <p>The table below describes the fields shown in the display.</p> <p>Cisco IOS Asynchronous Transfer Mode Command Reference (2013), at 460</p>	<pre> switch#show interfaces ethernet 1 Ethernet1 is up, line protocol is up (connected) Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff) MTU 9212 bytes, BW 10000000 Kbit Full-duplex, 10Gb/s, auto negotiation: off Last clearing of "show interface" counters never 5 minutes input rate 301 bps (0.0% with framing), 0 packets/sec 5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec 2285370854005 packets input, 225028582832583 bytes Received 29769609741 broadcasts, 3073437605 multicast 113 runs, 1 giants 118 input errors, 117 CRC, 0 alignment, 18 symbol 27511409 PAUSE input 335031607678 packets output, 27845413138330 bytes Sent 14282316688 broadcasts, 54045824072 multicast 108 output errors, 0 collisions 0 late collision, 0 deferred 0 PAUSE output </pre> <p>Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 413. Arista User Manual v. 4.11.2.1 (3/1/2013), at 447. Arista User Manual v. 4.12.4 (9/16/2013), at 533. Arista User Manual v. 4.13.6F (4/14/2014), at 637. Arista User Manual v. 4.13.7M (6/17/2014), at 638. Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 646 Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 648.</p>

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<p>Router# show interfaces</p> <p>Ethernet0/0 is up, line protocol is up Hardware is AmdP2, address is aabb.cc03.6c00 (bia aabb.cc03.6c00) Internet address is 172.17.1.1/16 MTU 1500 bytes, BW 10000 Kbit, DLY 1000 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output 00:00:06, output hang never Last clearing of "show interface" counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 input packets with dribble condition detected 11 packets output, 1648 bytes, 0 underruns 0 output errors, 0 collisions, 1 interface resets 0 babbles, 0 late collision, 0 deferred 0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out</p> <p>Cisco Configuration Fundamentals Configuration Guide, Cisco IOS Release 15M&T (2013), at 44</p>	<p>Arista User Manual v. 4.14.6M (1/19/2015), at 644. Arista User Manual v. 4.15.0F (4/18/2015), at 652. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 644.</p> <p>switch#show interfaces ethernet 1</p> <p>Ethernet1 is up, line protocol is up (connected) Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff) MTU 9212 bytes, BW 10000000 Kbit Full-duplex, 10Gb/s, auto negotiation: off Last clearing of "show interface" counters never 5 minutes input rate 301 bps (0.0% with framing), 0 packets/sec 5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec 2285370854005 packets input, 225028582832583 bytes Received 29769609741 broadcasts, 3073437605 multicast 113 runts, 1 giants 118 input errors, 117 CRC, 0 alignment, 18 symbol 27511409 PAUSE input 335031607678 packets output, 27845413138330 bytes Sent 14282316688 broadcasts, 54045824072 multicast 108 output errors, 0 collisions 0 late collision, 0 deferred 0 PAUSE output</p> <p>Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 413. Arista User Manual v. 4.11.2.1 (3/1/2013), at 447. Arista User Manual v. 4.12.4 (9/16/2013), at 533. Arista User Manual v. 4.13.6F (4/14/2014), at 637. Arista User Manual v. 4.13.7M (6/17/2014), at 638. Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 646. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 648. Arista User Manual v. 4.14.6M (1/19/2015), at 644. Arista User Manual v. 4.15.0F (4/18/2015), at 652. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 644.</p>
<p>Use the showinterfaceinterface-type interface-number command to display the information and statistics for Ethernet 0 on R4.</p> <p>R4> show interface ethernet 0</p> <p>Ethernet0 is up, line protocol is up Hardware is Lance, address is 00e0.1eb8.eb0e (bia 00e0.1eb8.eb0e) The MAC address for Ethernet 0 on R4 is 00e0.1eb8.eb0e. The format of the client identifier for this interface is nullcisco-00e0.1eb8.eb0e-et0.</p>	<p>This command assigns the MAC address of 001c.2804.17e1 to Ethernet interface 7, then displays interface parameters, including the assigned address.</p> <p>switch(config)#interface ethernet 7 switch(config-if-Et7)#mac-address 001c.2804.17e1 switch(config-if-Et7)#show interface ethernet 7</p> <p>Ethernet3 is up, line protocol is up (connected) Hardware is Ethernet, address is 001c.2804.17e1 (bia 001c.7312.02e2)</p>

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Configuration Fundamentals Configuration Guide, Cisco IOS Release 15M&T (2013), at 81	Arista User Manual v. 4.14.3F – Rev. 2 (10/2/14), at 437. See also Arista User Manual v. 4.12.3 (7/17/13), at 371; Arista User Manual, v. 4.11.1 (1/11/13), at 312; Arista User Manual v. 4.10.3 (10/22/12), at 270; Arista User Manual v. 4.9.3.2 (5/3/12), at 252.																																																											
<p>The following is sample output from the <code>show ip igmp snooping</code> command:</p> <pre>Router# show ip igmp snooping Global IGMP Snooping configuration: ----- IGMP snooping : Enabled IGMPv3 snooping (minimal) : Enabled Report suppression : Enabled TCN solicit query : Disabled TCN flood query count : 2 Last Member Query Interval : 1000</pre>	<p>Example</p> <ul style="list-style-type: none">This command displays the switch's IGMP snooping configuration. <pre>switch>show ip igmp snooping Global IGMP Snooping configuration: ----- IGMP snooping : Enabled Robustness variable : 2</pre>																																																											
Cisco IOS IP Multicast Command Reference (2013), at 626	Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 1263. Arista User Manual v. 4.11.2.1 (3/1/2013), at 1339. Arista User Manual v. 4.12.4 (9/16/2013), at 1559. Arista User Manual v. 4.13.6F (4/14/2014), at 1733. Arista User Manual v. 4.13.7M (6/17/2014), at 1810. Arista User Manual v. 4.14.3F - Rev. 2 (10/2/14), at 1785. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1799. Arista User Manual v. 4.14.6M (1/19/2015), at 1794. Arista User Manual v. 4.15.0F (4/18/2015), at 1803. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1797.																																																											
<p>Examples</p> <p>This example shows how to display transceiver information:</p> <pre>Router# show interfaces transceiver If device is externally calibrated, only calibrated values are printed. ++ : high alarm, + : high warning, - : low warning, -- : low alarm. NA or N/A: not applicable, Tx: transmit, Rx: receive. mA: milliamperes, dBm: decibels (milliwatts).</pre> <table><thead><tr><th>Port</th><th>Temperature (Celsius)</th><th>Voltage (Volts)</th><th>Current (mA)</th><th>Optical Tx Power (dBm)</th><th>Optical Rx Power (dBm)</th></tr></thead><tbody><tr><td>Gi1/1</td><td>40.6</td><td>5.09</td><td>0.4</td><td>-25.2</td><td>N/A</td></tr><tr><td>Gi2/1</td><td>35.5</td><td>5.05</td><td>0.1</td><td>-29.2</td><td>N/A</td></tr><tr><td>Gi2/2</td><td>49.5</td><td>3.30</td><td>0.0</td><td>7.1</td><td>-18.7</td></tr></tbody></table>	Port	Temperature (Celsius)	Voltage (Volts)	Current (mA)	Optical Tx Power (dBm)	Optical Rx Power (dBm)	Gi1/1	40.6	5.09	0.4	-25.2	N/A	Gi2/1	35.5	5.05	0.1	-29.2	N/A	Gi2/2	49.5	3.30	0.0	7.1	-18.7	<p>Examples</p> <ul style="list-style-type: none">This command displays transceiver data on Ethernet interfaces 1 through 4. <pre>switch>show interfaces ethernet 1-4 transceiver If device is externally calibrated, only calibrated values are printed. N/A: not applicable, Tx: transmit, Rx: receive. mA: milliamperes, dBm: decibels (milliwatts).</pre> <table><thead><tr><th>Port</th><th>Temp (Celsius)</th><th>Voltage (Volts)</th><th>Bias Current (mA)</th><th>Optical Tx Power (dBm)</th><th>Optical Rx Power (dBm)</th><th>Last Update (Date Time)</th></tr></thead><tbody><tr><td>Et1</td><td>34.17</td><td>3.30</td><td>6.75</td><td>-2.41</td><td>-2.83</td><td>2011-12-02 16:18:48</td></tr><tr><td>Et2</td><td>35.08</td><td>3.30</td><td>6.75</td><td>-2.23</td><td>-2.06</td><td>2011-12-02 16:18:42</td></tr><tr><td>Et3</td><td>36.72</td><td>3.30</td><td>7.20</td><td>-2.02</td><td>-2.14</td><td>2011-12-02 16:18:49</td></tr><tr><td>Et4</td><td>35.91</td><td>3.30</td><td>6.92</td><td>-2.20</td><td>-2.23</td><td>2011-12-02 16:18:45</td></tr></tbody></table> <p>switch></p>	Port	Temp (Celsius)	Voltage (Volts)	Bias Current (mA)	Optical Tx Power (dBm)	Optical Rx Power (dBm)	Last Update (Date Time)	Et1	34.17	3.30	6.75	-2.41	-2.83	2011-12-02 16:18:48	Et2	35.08	3.30	6.75	-2.23	-2.06	2011-12-02 16:18:42	Et3	36.72	3.30	7.20	-2.02	-2.14	2011-12-02 16:18:49	Et4	35.91	3.30	6.92	-2.20	-2.23	2011-12-02 16:18:45
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	<p>Arista User Manual v. 4.14.3F – Rev. 2 (10/2/14), at 451.</p> <p>See also Arista User Manual v. 4.12.3 (7/17/13), at 385; Arista User Manual, v. 4.11.1 (1/11/13), at 326; Arista User Manual v. 4.10.3 (10/22/12), at 284; Arista User Manual v. 4.9.3.2 (5/3/12), at 266.</p>
<p>The following is sample output from the <code>show ip ospf</code> command when entered without a specific OSPF process ID:</p> <pre> Router# show ip ospf Routing Process "ospf 201" with ID 10.0.0.1 and Domain ID 10.20.0.1 Supports only single TOS(TOS0) routes Supports opaque LSA SPF schedule delay 5 secs, Hold time between two SPFs 10 secs Minimum LSA interval 5 secs, Minimum LSA arrival 1 secs LSA group pacing timer 100 secs Interface flood pacing timer 55 msec Retransmission pacing timer 100 msec Number of external LSA 0, Checksum Sum 0x0 Number of opaque AS LSA 0, Checksum Sum 0x0 Number of DCbitless external and opaque AS LSA 0 Number of DoNotAge external and opaque AS LSA 0 Number of areas in this router is 2, 2 normal 0 stub 0 nssa External flood list length 0 Area BACKBONE(0) Number of interfaces in this area is 2 Area has message digest authentication SPF algorithm executed 4 times Area ranges are Number of LSA 4, Checksum Sum 0x29BEB Number of opaque link LSA 0, Checksum Sum 0x0 Number of DCbitless LSA 3 Number of indication LSA 0 Number of DoNotAge LSA 0 Flood list length 0 Area 172.16.26.0 Number of interfaces in this area is 0 Area has no authentication SPF algorithm executed 1 times Area ranges are 192.168.0.0/16 Passive Advertise Number of LSA 1, Checksum Sum 0x44FD Number of opaque link LSA 0, Checksum Sum 0x0 Number of DCbitless LSA 1 Number of indication LSA 1 Number of DoNotAge LSA 0 Flood list length 0 </pre> <p>Cisco IOS IP Routing:OSPF Command Reference (2013), at 174</p>	<pre> switch# show ip ospf Routing Process "ospf 1" with ID 10.168.103.1 Supports opaque LSA Maximum number of LSA allowed 12000 Threshold for warning message 75% Ignore-time 5 minutes, reset-time 5 minutes Ignore-count allowed 5, current 0 It is an area border router Hold time between two consecutive SPFs 5000 msec SPF algorithm last executed 00:00:09 ago Minimum LSA interval 5 secs Minimum LSA arrival 1000 msec Number of external LSA 0, Checksum Sum 0x000000 Number of opaque AS LSA 0, Checksum Sum 0x000000 Number of LSA 27. Number of areas in this router is 3, 3 normal 0 stub 0 nssa Area BACKBONE(0.0.0.0) Number of interfaces in this area is 2 It is a normal area Area has no authentication SPF algorithm executed 153 times Number of LSA 8, Checksum Sum 0x03e13a Number of opaque link LSA 0, Checksum Sum 0x000000 Area 0.0.0.2 Number of interfaces in this area is 1 It is a normal area Area has no authentication SPF algorithm executed 153 times Number of LSA 11, Checksum Sum 0x054e57 Number of opaque link LSA 0, Checksum Sum 0x000000 Area 0.0.0.3 Number of interfaces in this area is 1 It is a normal area Area has no authentication SPF algorithm executed 5 times Number of LSA 6, Checksum Sum 0x02a401 Number of opaque link LSA 0, Checksum Sum 0x000000 </pre> <p>Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 947. Arista User Manual v. 4.11.2.1 (3/1/2013), at 991. Arista User Manual v. 4.12.4 (9/16/2013), at 1226. Arista User Manual v. 4.13.6F (4/14/2014), at 1341-1342.</p>

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	<p>Arista User Manual v. 4.13.7M (6/17/2014), at 1359-1360. Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 1391-1392. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1413. Arista User Manual v. 4.14.6M (1/19/2015), at 1409. Arista User Manual v. 4.15.0F (4/18/2015), at 1417. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1411.</p>
<p>Examples</p> <p>The following is sample output from the <code>show snmp</code> command:</p> <pre> Router# show snmp Chassis: 12161083 0 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 0 Number of requested variables 0 Number of altered variables 0 Get-request PDUs 0 Get-next PDUs 0 Set-request PDUs 0 Input queue packet drops (Maximum queue size 1000) 0 SNMP packets output 0 Too big errors (Maximum packet size 1500) 0 No such name errors 0 Bad values errors 0 General errors 0 Response PDUs 0 Trap PDUs SNMP logging: enabled SNMP Trap Queue: 0 dropped due to resource failure. </pre> <p>Cisco IOS SNMP Support Command Reference (2013), at 83</p>	<p>Example</p> <ul style="list-style-type: none"> This command configures <code>xyz-1234</code> as the chassis-ID string, then displays the result. <pre> switch(config)#snmp-server chassis-id xyz-1234 switch(config)#show snmp Chassis: xyz-1234 <---chassis ID </pre> <pre> 8 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 8 Number of requested variables 0 Number of altered variables 4 Get-request PDUs 4 Get-next PDUs 0 Set-request PDUs 21 SNMP packets output 0 Too big errors 0 No such name errors 0 Bad value errors 0 General errors 8 Response PDUs 0 Trap PDUs SNMP logging: enabled Logging to taccon.162 SNMP agent enabled switch(config)# </pre> <p>Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 1352-1353. Arista User Manual v. 4.11.2.1 (3/1/2013), at 1432-1433. Arista User Manual v. 4.12.4 (9/16/2013), at 1705-1706. Arista User Manual v. 4.13.6F (4/14/2014), at 1895-1896. Arista User Manual v. 4.13.7M (6/17/2014), at 1923-1924. Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 1967-68.</p>

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	<p>Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1981-82. Arista User Manual v. 4.14.6M (1/19/2015), at 1977-1978. Arista User Manual v. 4.15.0F (4/18/2015), at 1985-1986. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1979-1980</p>
<pre> Router# show interfaces atm 0/0/0 ATM0/0/0 is up, line protocol is up Hardware is cyBus ATM Internet address is 10.1.1.1/24 MTU 4470 bytes, sub MTU 4470, BW 156250 Kbit, DLY 80 usec, rely 255/255, load 1/255 Encapsulation ATM, loopback not set, keepalive set (10 sec) Encapsulation(s): AAL5, PVC mode 256 TX buffers, 256 RX buffers, 2048 maximum active VCs, 1024 VCs per VP, 1 current VCCs VC idle disconnect time: 300 seconds Last input never, output 00:00:05, output hang never Last clearing of "show interface" counters never Queueing strategy: fifo Output queue 0/40, 0 drops; input queue 0/75, 0 drops 5 minute input rate 0 bits/sec, 1 packets/sec 5 minute output rate 0 bits/sec, 1 packets/sec 5 packets input, 560 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 5 packets output, 560 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 output buffer failures, 0 output buffers swapped out </pre> <p>Cisco IOS Asynchronous Transfer Mode Command Reference (2011), at ATM-377</p>	<p>Examples</p> <ul style="list-style-type: none"> These commands display interface counters, clear the counters, then display the counters again. <pre> switch#show interfaces ethernet 1 Ethernet1 is up, line protocol is up (connected) Hardware is Ethernet, address is 001c.7302.2fff (bia 001c.7302.2fff) MTU 9212 bytes, BW 10000000 Kbit Full-duplex, 10Gb/s, auto negotiation: off Last clearing of "show interface" counters never 5 minutes input rate 301 bps (0.0% with framing), 0 packets/sec 5 minutes output rate 0 bps (0.0% with framing), 0 packets/sec 2285370854005 packets input, 225028582832583 bytes Received 29769609741 broadcasts, 3073437605 multicast 113 runts, 1 giants 118 input errors, 117 CRC, 0 alignment, 18 symbol 27511409 PAUSE input 335031607678 packets output, 27845413138330 bytes Sent 14282316688 broadcasts, 54045824072 multicast 108 output errors, 0 collisions 0 late collision, 0 deferred 0 PAUSE output </pre> <p>Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 413. Arista User Manual v. 4.11.2.1 (3/1/2013), at 447. Arista User Manual v. 4.12.4 (9/16/2013), at 533. Arista User Manual v. 4.13.6F (4/14/2014), at 637. Arista User Manual v. 4.13.7M (6/17/2014), at 638. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 646. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 648. Arista User Manual v. 4.14.6M (1/19/2015), at 644. Arista User Manual v. 4.15.0F (4/18/2015), at 652. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 644.</p>

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<p>Router# show ip route</p> <div style="border: 1px solid red; padding: 5px;"> <p>Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route</p> </div> <p>Gateway of last resort is not set</p> <p>Cisco IOS IP Routing Protocols Command Reference, Release 12.4 (2005), at IP2R-553</p>	<p>IPv4 Routing Chapter 23 IPv4</p> <p>Examples</p> <ul style="list-style-type: none"> This command displays IP routes learned through BGP. <div style="border: 1px solid red; padding: 5px;"> <p>switch#show ip route bgp</p> <p>Codes: C - connected, S - static, K - kernel, O - OSPF, IA - OSPF inter area, E1 - OSPF external type 1, E2 - OSPF external type 2, N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type2, B I - iBGP, B E - eBGP, R - RIP, A - Aggregate</p> </div> <pre> B E 170.44.48.0/23 [20/0] via 170.44.254.78 B E 170.44.50.0/23 [20/0] via 170.44.254.78 B E 170.44.52.0/23 [20/0] via 170.44.254.78 B E 170.44.54.0/23 [20/0] via 170.44.254.78 B E 170.44.254.112/30 [20/0] via 170.44.254.78 B E 170.53.0.34/32 [1/0] via 170.44.254.2 B I 170.53.0.35/32 [1/0] via 170.44.254.13 via 170.44.254.20 via 170.44.254.67 via 170.44.254.35 via 170.44.254.98 </pre> <p>switch></p> <p>Arista User Manual v. 4.10.0 (7/19/2012), at 617. Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 840. Arista User Manual v. 4.11.2.1 (3/1/2013), at 880. Arista User Manual v. 4.12.4 (9/16/2013), at 1085. Arista User Manual v. 4.13.6F (4/14/2014), at 1188. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 1228. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1250. Arista User Manual v. 4.14.6M (1/19/2015), at 1246. Arista User Manual v. 4.15.0F (4/18/2015), at 1254. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1248. Arista User Manual v. 4.13.7M (6/17/2014), at 1206.</p>

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<p>Usage Guidelines This command provides counter information for SNMP operations. It also displays the chassis ID string defined with the <code>snmp-server chassis-id</code> global configuration command.</p> <p>Command Examples The following is sample output from the <code>show snmp</code> command:</p> <pre> Router# show snmp Chassis: 12161083 0 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 0 Number of requested variables 0 Number of altered variables 0 Get-request PDUs 0 Get-next PDUs 0 Set-request PDUs 0 Input queue packet drops (Maximum queue size 1000) 0 SNMP packets output 0 Too big errors (Maximum packet size 1500) 0 No such name errors 0 Bad values errors 0 General errors 0 Response PDUs 0 Trap PDUs SNMP logging: enabled </pre> <p>Cisco IOS SNMP Support Command Reference, IOS 15.2 (2011), at 95-96</p>	<p>Configuring SNMP Chapter 37 SNMP</p> <pre> 8 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 8 Number of requested variables 0 Number of altered variables 4 Get-request PDUs 4 Get-next PDUs 0 Set-request PDUs 21 SNMP packets output 0 Too big errors 0 No such name errors 0 Bad value errors 0 General errors 8 Response PDUs 0 Trap PDUs SNMP logging: enabled Logging to tacoon.162 SNMP agent enabled switch(config)# </pre> <p>Arista User Manual v. 4.10.0 (7/19/2012), at 1043. Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 1353. Arista User Manual v. 4.11.2.1 (3/1/2013), at 1433. Arista User Manual v. 4.12.4 (9/16/2013), at 1706. Arista User Manual v. 4.13.6F (4/14/2014), at 1896. Arista User Manual v. 4.13.7M (6/17/2014), at 1924. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 1968. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1982. Arista User Manual v. 4.14.6M (1/19/2015), at 1978. Arista User Manual v. 4.15.0F (4/18/2015), at 1986. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1980.</p>

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<p>Examples</p> <p>This example shows how to display VTP interface switchport information on the device:</p> <pre>switch# show interface switchport Name: Ethernet8/11 Switchport: Enabled Switchport Monitor: Not enabled Operational Mode: trunk Access Mode VLAN: 1 (default) Trunking Native Mode VLAN: 1 (default) Trunking VLANs Enabled: 1,10,20-30 Pruning VLANs Enabled: 2-1001 Administrative private-vlan primary host-association: none Administrative private-vlan secondary host-association: none Administrative private-vlan primary mapping: none Administrative private-vlan secondary mapping: none Administrative private-vlan trunk native VLAN: none Administrative private-vlan trunk encapsulation: dot1q Administrative private-vlan trunk normal VLANs: none Administrative private-vlan trunk private VLANs: none Operational private-vlan: none switch#</pre> <p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 44</p>	<p>Example</p> <ul style="list-style-type: none"> These commands create the trunk mode allowed VLAN list of 6-10 for Ethernet interface 14, then verifies the VLAN list. <pre>switch(config)#interface ethernet 14 switch(config-if-Et14)#switchport trunk allowed vlan 6-10 switch(config-if-Et14)#show interfaces ethernet 14 switchport Name: Et14 Switchport: Enabled Administrative Mode: trunk Operational Mode: trunk Access Mode VLAN: 1 (inactive) Trunking Native Mode VLAN: 1 (inactive) Administrative Native VLAN tagging: disabled Trunking VLANs Enabled: 6-10 Trunk Groups: switch(config-if-Et14)#</pre> <p>Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 798.</p> <p>See also Arista User Manual v. 4.12.3 (7/17/13), at 645; Arista User Manual, v. 4.11.1 (1/11/13), at 498; Arista User Manual v. 4.10.3 (10/22/12), at 416; Arista User Manual v. 4.9.3.2 (5/3/12), at 355.</p>
<p>Examples</p> <p>This example shows how to display information about the specified VLAN. This command displays statistical information gathered on the VLAN at 1-minute intervals:</p> <pre>switch# show interface vlan 5 Vlan5 is administratively down, line protocol is down Hardware is EtherSVI, address is 0000.0000.0000 MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive not supported ARP type: ARPA Last clearing of "show interface" counters 01:21:55 1 minute input rate 1 bytes/sec, 0 packets/sec 1 minute output rate 0 bytes/sec, 0 packets/sec L3 Switched: input: 0 pkts, 0 bytes - output: 0 pkts, 0 bytes L3 in Switched: ucast: 0 pkts, 0 bytes - mcast: 0 pkts, 0 bytes L3 out Switched: ucast: 0 pkts, 0 bytes - mcast: 0 pkts, 0 bytes</pre> <p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 49</p>	<p>Example</p> <ul style="list-style-type: none"> This command display configuration and status information for Ethernet interface 1 and 2. <pre>switch>show interfaces ethernet 1-2 Ethernet1 is up, line protocol is up (connected) Hardware is Ethernet, address is 001c.2481.7647 (bia 001c.2481.7647) Description: mkt-1 MTU 9212 bytes, BW 10000000 Kbit Full-duplex 10Gb/s, auto negotiation: off Last clearing of "show interface" counters never 5 seconds input rate 33.5 Mbps (0.3% with framing), 846 packets/sec 5 seconds output rate 180 kbps (0.0% with framing), 55 packets/sec 76437268 packets input, 94280286608 bytes Received 2208 broadcasts, 73358 multicast 0 runts, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol 0 PAUSE input 6184281 packets output, 4071319140 bytes Sent 2209 broadcasts, 345754 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred 0 PAUSE output</pre> <p>Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 437.</p>

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	<p>See also Arista User Manual v. 4.12.3 (7/17/13), at 371; Arista User Manual, v. 4.11.1 (1/11/13), at 312; Arista User Manual v. 4.10.3 (10/22/12), at 270; Arista User Manual v. 4.9.3.2 (5/3/12), at 252.</p>
<p>Examples</p> <p>This example shows how to display STP when you are running Rapid PVST+:</p> <pre>switch# show spanning-tree</pre> <pre>VLAN0001 Spanning tree enabled protocol rstp Root ID Priority 32769 Address 000d.eca3.9f01 Cost 4 Port 4105 (port-channel10) Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec</pre> <pre> Bridge ID Priority 32769 (priority 32768 sys-id-ext 1) Address 0022.5579.7641 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Interface Role Sts Cost Prio.Nbr Type ----- Po10 Root FWD 2 128.4105 (VPC peer-link) P2p Po20 Desg FWD 1 128.4115 (VPC) P2p Po30 Root FWD 1 128.4125 (VPC) P2p </pre> <p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 63</p>	<p>Show commands (such as <code>show spanning-tree</code>) displays the RSTP instance as MST0 (MST instance 0).</p> <p>Example</p> <ul style="list-style-type: none"> This command, while the switch is in RST mode, displays RST instance information. <pre>switch(config)#show spanning-tree</pre> <pre>MST0 Spanning tree enabled protocol rstp Root ID Priority 32768 Address 001c.730c.1867 This bridge is the root</pre> <pre> Bridge ID Priority 32768 (priority 32768 sys-id-ext 0) Address 001c.730c.1867 Hello Time 2.000 sec Max Age 20 sec Forward Delay 15 sec Interface Role State Cost Prio.Nbr Type ----- Et51 designated forwarding 2000 128.51 P2p </pre> <pre>switch(config)#</pre> <p>Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 960.</p> <p>See also Arista User Manual v. 4.12.3 (7/17/13), at 838; Arista User Manual, v. 4.11.1 (1/11/13), at 656; Arista User Manual v. 4.10.3 (10/22/12), at 570; Arista User Manual v. 4.9.3.2 (5/3/12), at 490; Arista User Manual v. 4.8.2 (11/18/11), at 364; Arista User Manual v. 4.7.3 (7/18/11), at 238; Arista User Manual v. 4.6.0 (12/22/2010), at 268.</p>

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<p>This example shows how to display STP information when you are running MST:</p> <pre>switch# show spanning-tree</pre> <pre>MST0000 Spanning tree enabled protocol mstp Root ID Priority 32768 Address 0018.bad8.fc150 Cost 0 Port 258 (Ethernet 2/2) Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Bridge ID Priority 32768 (priority 32768 sys-id-ext 0) Address 0018.bad8.239d Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Interface Role Sts Cost Prio.Nbr Type ----- Eth2/1 Altn BKN 20000 128.257 Network, P2p BA_inc. Eth2/2 Root FWD 20000 128.258 Edge, P2p Eth3/48 Desg FWD 20000 128.43228 P2p</pre> <p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 64</p>	<p>This command displays output from the show spanning-tree command:</p> <pre>Switch#show spanning-tree</pre> <pre>MST0 Spanning tree enabled protocol mstp Root ID Priority 32768 Address 0011.2201.0301 This bridge is the root Bridge ID Priority 32768 (priority 32768 sys-id-ext 0) Address 0011.2201.0301 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Interface Role State Cost Prio.Nbr Type ----- Et4 designated forwarding 2000 128.4 P2p Et5 designated forwarding 2000 128.5 P2p ... PEt4 designated forwarding 2000 128.31 P2p PEt5 designated forwarding 2000 128.44 P2p ... Po3 designated forwarding 1999 128.1003 P2p</pre> <p>Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 983.</p> <p>See also Arista User Manual v. 4.12.3 (7/17/13), at 861; Arista User Manual, v. 4.11.1 (1/11/13), at 679; Arista User Manual v. 4.10.3 (10/22/12), at 593; Arista User Manual v. 4.9.3.2 (5/3/12), at 512; Arista User Manual v. 4.8.2 (11/18/11), at 386; Arista User Manual v. 4.7.3 (7/18/11), at 275; Arista User Manual v. 4.6.0 (12/22/2010), at 295</p>

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<pre> Spanning tree enabled protocol rstp Root ID Priority 32770 Address 000d.eca3.9f01 Cost 4 Port 4105 (port-channel10) Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Bridge ID Priority 32770 (priority 32768 sys-id-ext 2) Address 0022.5579.7641 Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec Interface Role Sts Cost Prio.Nbr Type ----- Po10 Root FWD 2 128.4105 (vPC peer-link) P2p Po20 Desg FWD 1 128.4115 (vPC) P2p Po30 Root FWD 1 128.4125 (vPC) P2p </pre>	<pre> Spanning tree enabled protocol rstp Root ID Priority 32768 Address 001c.7301.07b9 Cost 1999 (Ext) 0 (Int) Port 101 (Port-Channel12) Hello Time 2.000 sec Max Age 20 sec Forward Delay 15 sec Bridge ID Priority 32768 (priority 32768 sys-id-ext 0) Address 001c.7304.195b Hello Time 2.000 sec Max Age 20 sec Forward Delay 15 sec Interface Role State Cost Prio.Nbr Type ----- Et4 designated forwarding 20000 128.4 P2p Et5 designated forwarding 20000 128.5 P2p Et6 designated forwarding 20000 128.6 P2p Et23 designated forwarding 20000 128.23 P2p Et26 designated forwarding 20000 128.26 P2p Et32 designated forwarding 2000 128.32 P2p </pre>
<p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 73</p>	<p>Arista User Manual v. 4.12.4 (9/16/2013), at 883. Arista User Manual v. 4.13.6F (4/14/2014), at 947. Arista User Manual v. 4.13.7M (6/17/2014), at 965. Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 983. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 985. Arista User Manual v. 4.14.6M (1/19/2015), at 981. Arista User Manual v. 4.15.0F (4/18/2015), at 989. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 981.</p>

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<p>This example shows how to display detailed information about the STP configuration:</p> <pre>switch(config)# show spanning-tree detail</pre> <p>VLAN0001 is executing the rstp compatible Spanning Tree protocol</p> <p>Bridge Identifier has priority 32768, sysid 1, address 0022.5579.7641</p> <p>Configured hello time 2, max age 20, forward delay 15</p> <p>Current root has priority 32769, address 000d.eca3.9f01</p> <p>Root port is 4105 (port-channel10), cost of root path is 4</p> <p>Topology change flag not set, detected flag not set</p> <p>Number of topology changes 1 last change occurred 20:24:36 ago</p> <p>from port-channel10</p> <p>Times: hold 1, topology change 35, notification 2</p> <p>hello 2, max age 20, forward delay 15</p> <p>Timers: hello 0, topology change 0, notification 0</p> <p>Port 4105 (port-channel10, vPC Peer-link) of VLAN0001 is root forwarding</p> <p>Port path cost 2, Port priority 128, Port Identifier 128.4105</p> <p>Designated root has priority 32769, address 000d.eca3.9f01</p> <p>Designated bridge has priority 32769, address 0022.5579.7341</p> <p>Designated port id is 128.4105, designated path cost 2</p> <p>Timers: message age 16, forward delay 0, hold 0</p> <p>Number of transitions to forwarding state: 1</p> <p>Link type is point-to-point by default</p> <p>BPDU: sent 36729, received 36739</p> <p>Port 4115 (port-channel20, vPC) of VLAN0001 is designated forwarding</p> <p>Port path cost 1, Port priority 128, Port Identifier 128.4115</p> <p>Designated root has priority 32769, address 000d.eca3.9f01</p> <p>Designated bridge has priority 32769, address 0022.5579.7341</p> <p>Designated port id is 128.4115, designated path cost 2</p> <p>Timers: message age 0, forward delay 0, hold 0</p> <p>Number of transitions to forwarding state: 0</p> <p>Link type is point-to-point by default</p> <p>BPDU: sent 0, received 0</p> <p>Port 4125 (port-channel30, vPC) of VLAN0001 is root forwarding</p> <p>Port path cost 1, Port priority 128, Port Identifier 128.4125</p> <p>Designated root has priority 32769, address 000d.eca3.9f01</p> <p>Designated bridge has priority 32769, address 000d.eca3.9f01</p> <p>Designated port id is 128.4125, designated path cost 0</p> <p>Timers: message age 0, forward delay 0, hold 0</p> <p>Number of transitions to forwarding state: 0</p> <p>Link type is point-to-point by default</p> <p>BPDU: sent 0, received 0</p> <p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command</p>	<ul style="list-style-type: none"> This command displays STP data, including an information block for each interface running STP. <pre>switch>show spanning-tree vlan 1000 detail</pre> <p>MST0 is executing the rstp Spanning Tree protocol</p> <p>Bridge Identifier has priority 32768, sysid 0, address 001c.7304.195b</p> <p>Configured hello time 2.000, max age 20, forward delay 15, transmit hold-count 6</p> <p>Current root has priority 32768, address 001c.7301.07b9</p> <p>Root port is 101 (Port-Channel2), cost of root path is 1999 (Ext) 0 (Int)</p> <p>Number of topology changes 4109 last change occurred 1292651 seconds ago</p> <p>from Ethernet13</p> <p>Port 4 (Ethernet4) of MST0 is designated forwarding</p> <p>Port path cost 20000, Port priority 128, Port Identifier 128.4.</p> <p>Designated root has priority 32768, address 001c.7301.07b9</p> <p>Designated bridge has priority 32768, address 001c.7304.195b</p> <p>Designated port id is 128.4, designated path cost 1999 (Ext) 0 (Int)</p> <p>Timers: message age 1, forward delay 15, hold 20</p> <p>Number of transitions to forwarding state: 1</p> <p>Link type is point-to-point by default, internal</p> <p>BPDU: sent 452252, received 0, taggedErr 0, otherErr 0, rateLimiterCount 0</p> <p>Rate-Limiter: enabled, Window: 10 sec, Max-BPDU: 400</p> <p>Port 5 (Ethernet5) of MST0 is designated forwarding</p> <p>Port path cost 20000, Port priority 128, Port Identifier 128.5.</p> <p>Designated root has priority 32768, address 001c.7301.07b9</p> <p>Designated bridge has priority 32768, address 001c.7304.195b</p> <p>Designated port id is 128.5, designated path cost 1999 (Ext) 0 (Int)</p> <p>Timers: message age 1, forward delay 15, hold 20</p> <p>Number of transitions to forwarding state: 1</p> <p>Link type is point-to-point by default, internal</p> <p>BPDU: sent 1006266, received 0, taggedErr 0, otherErr 0, rateLimiterCount 0</p> <p>Rate-Limiter: enabled, Window: 10 sec, Max-BPDU: 400</p> <p>Arista User Manual v. 4.12.4 (9/16/2013), at 884.</p> <p>Arista User Manual v. 4.13.6F (4/14/2014), at 948.</p> <p>Arista User Manual v. 4.13.7M (6/17/2014), at 966.</p> <p>Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 984.</p> <p>Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 986.</p> <p>Arista User Manual v. 4.14.6M (1/19/2015), at 982.</p> <p>Arista User Manual v. 4.15.0F (4/18/2015), at 990.</p> <p>Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 982.</p>

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Reference (Feb. 2013), at 74-75																																													
<p>This example shows how to display STP information about a specified interface when you are running Rapid PVST+:</p> <pre>switch(config)# show spanning-tree interface ethernet 8/2</pre> <table><thead><tr><th>Vlan</th><th>Role</th><th>Sts</th><th>Cost</th><th>Prio.Nbr</th><th>Type</th></tr></thead><tbody><tr><td>VLAN0001</td><td>Altn</td><td>BLK</td><td>20000</td><td>128.1025</td><td>P2p</td></tr><tr><td>VLAN0002</td><td>Desg</td><td>FWD</td><td>20000</td><td>128.1025</td><td>P2p</td></tr></tbody></table> <p>This example shows how to display STP information about a specified interface when you are running MST:</p> <pre>switch(config)# show spanning-tree interface ethernet 2/50</pre> <table><thead><tr><th>Mst</th><th>Instance</th><th>Role</th><th>Sts</th><th>Cost</th><th>Prio.Nbr</th><th>Type</th></tr></thead><tbody><tr><td>MST0000</td><td></td><td>Desg</td><td>FWD</td><td>20000</td><td>128.1281</td><td>P2p</td></tr></tbody></table> <p>This example shows how to display detailed STP information about a specified interface when you are running Rapid PVST+:</p> <pre>switch(config)# show spanning-tree interface ethernet 8/1 detail</pre> <p>Port 1025 (Ethernet8/1) of VLAN0001 is alternate blocking Port path cost 20000, Port priority 128, Port Identifier 128.1025 Designated root has priority 28672, address 0018.bad8.239d Designated bridge has priority 28672, address 0018.bad8.239d Designated port id is 128.1281, designated path cost 0 Timers: message age 15, forward delay 0, hold 0 Number of transitions to forwarding state: 1 Link type is point-to-point by default The port type is network by default. BPDU: sent 4657, received 188</p> <pre>Port 1025 (Ethernet8/1) of VLAN0002 is designated forwarding Port path cost 20000, Port priority 128, Port Identifier 128.1025 Designated root has priority 32770, address 0018.bad7.fc15 Designated bridge has priority 32770, address 0018.bad7.fc15 Designated port id is 128.1025, designated path cost 0 Timers: message age 0, forward delay 0, hold 0 Number of transitions to forwarding state: 1 Link type is point-to-point by default The port type is network by default. BPDU: sent 4838, received 0</pre>	Vlan	Role	Sts	Cost	Prio.Nbr	Type	VLAN0001	Altn	BLK	20000	128.1025	P2p	VLAN0002	Desg	FWD	20000	128.1025	P2p	Mst	Instance	Role	Sts	Cost	Prio.Nbr	Type	MST0000		Desg	FWD	20000	128.1281	P2p	<p>Examples</p> <ul style="list-style-type: none">This command displays an STP table for Ethernet 5 interface. <pre>switch# show spanning-tree interface ethernet 5</pre> <table><thead><tr><th>Instance</th><th>Role</th><th>State</th><th>Cost</th><th>Prio.Nbr</th><th>Type</th></tr></thead><tbody><tr><td>MST0</td><td>designated</td><td>forwarding</td><td>20000</td><td>128 5</td><td>P2p</td></tr></tbody></table> <pre>switch></pre> <ul style="list-style-type: none">This command displays a data block for Ethernet interface 5. <pre>switch# show spanning-tree interface ethernet 5 detail</pre> <p>Port 5 (Ethernet5) of MST0 is designated forwarding Port path cost 20000, Port priority 128, Port Identifier 128.5. Designated root has priority 32768, address 001c.7301.07b9 Designated bridge has priority 32768, address 001c.7304.195b Designated port id is 128.5, designated path cost 1999 (Ext) 0 (Int) Timers: message age 1, forward delay 15, hold 20 Number of transitions to forwarding state: 1 Link type is point-to-point by default, Internal BPDU: sent 1008766, received 0, taggedErr 0, otherErr 0, rateLimiterCount 0 Rate-Limiter: enabled, Window: 10 sec, Max-BPDU: 400</p> <pre>switch></pre> <p>Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 988.</p> <p>See also Arista User Manual v. 4.12.3 (7/17/13), at 866; Arista User Manual, v. 4.11.1 (1/11/13), at 684; Arista User Manual v. 4.10.3 (10/22/12), at 598; Arista User Manual v. 4.9.3.2 (5/3/12), at 517; Arista User Manual v. 4.8.2 (11/18/11), at 391; Arista User Manual v. 4.7.3 (7/18/11), at 280.</p>	Instance	Role	State	Cost	Prio.Nbr	Type	MST0	designated	forwarding	20000	128 5	P2p
Vlan	Role	Sts	Cost	Prio.Nbr	Type																																								
VLAN0001	Altn	BLK	20000	128.1025	P2p																																								
VLAN0002	Desg	FWD	20000	128.1025	P2p																																								
Mst	Instance	Role	Sts	Cost	Prio.Nbr	Type																																							
MST0000		Desg	FWD	20000	128.1281	P2p																																							
Instance	Role	State	Cost	Prio.Nbr	Type																																								
MST0	designated	forwarding	20000	128 5	P2p																																								

Cisco

```
switch# show spanning-tree mst
```

```
##### MST0    vlans mapped: 1-4094
Bridge        address 0018.bad7.fc15 priority    32768 (32768 sysid 0)
Root          this switch for the CIST
Regional Root this switch
Operational   hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured    hello time 2 , forward delay 15, max age 20, max hops 20
```

Interface	Role	Sts	Cost	Prio	Nbr	Type
Eth8/1	Desg FWD	20000	128	1025	P2p	
Eth8/2	Desg FWD	20000	128	1026	P2p	

This example shows how to display STP information about a specific MST instance:

```
switch# show spanning-tree mst 0
```

```
##### MST0    vlans mapped: 1-4094
Bridge        address 0018.bad7.fc15 priority    32768 (32768 sysid 0)
Root          this switch for the CIST
Regional Root this switch
Operational   hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured    hello time 2 , forward delay 15, max age 20, max hops 20
```

Interface	Role	Sts	Cost	Prio	Nbr	Type
Eth8/1	Desg FWD	20000	128	1025	P2p	
Eth8/2	Desg FWD	20000	128	1026	P2p	

This example shows how to display detailed STP information about the MST protocol:

```
switch# show spanning-tree mst detail
```

```
##### MST0    vlans mapped: 1-4094
Bridge        address 0018.bad7.fc15 priority    32768 (32768 sysid 0)
Root          this switch for the CIST
Regional Root this switch
Operational   hello time 2 , forward delay 15, max age 20, txholdcount 6
Configured    hello time 2 , forward delay 15, max age 20, max hops 20
```

```
Eth8/1 of MST0 is designated forwarding
Port info      port id 128.1025 priority 128 cost 20000
Designated root address 0018.bad7.fc15 priority 32768 cost 0
Design. regional root address 0018.bad7.fc15 priority 32768 cost 0
Designated bridge address 0018.bad7.fc15 priority 32768 port id 128.1025
```

```
Timers: message expires in 0 sec, forward delay 0, forward transitions 1
Bpdus sent 1379, received 3
```

```
Eth8/2 of MST0 is designated forwarding
Port info      port id 128.1026 priority 128 cost 20000
Designated root address 0018.bad7.fc15 priority 32768 cost 0
Design. regional root address 0018.bad7.fc15 priority 32768 cost 0
Designated bridge address 0018.bad7.fc15 priority 32768 port id 128.1026
Timers: message expires in 0 sec, forward delay 0, forward transitions 1
Bpdus sent 1380, received 2
```

Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 80

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Examples

- This command displays interface data blocks for MST instance 3.

```
switch>show spanning-tree mst 3 detail
```

```
##### MST3    vlans mapped: 3
Bridge        address 0011.2233.4402 priority    32771 (32768 sysid 3)
Root          address 0011.2233.4401 priority    32771 (32768 sysid 3)
```

Ethernet1 of MST3 is root forwarding

Port info	port id	128.1	priority	128	cost	2000
Designated root	address 0011.2233.4401	priority	32768	cost	0	
Designated bridge	address 0011.2233.4401	priority	32768	port id	128.1	

Ethernet2 of MST3 is alternate discarding

Port info	port id	128.2	priority	128	cost	2000
Designated root	address 0011.2233.4401	priority	32768	cost	0	
Designated bridge	address 0011.2233.4401	priority	32768	port id	128.2	

Ethernet3 of MST3 is designated forwarding

Port info	port id	128.3	priority	128	cost	2000
Designated root	address 0011.2233.4401	priority	32768	cost	2000	
Designated bridge	address 0011.2233.4402	priority	32768	port id	128.3	

- This command displays interface tables for all MST instances.

```
switch>show spanning-tree mst
```

```
##### MST0    vlans mapped: 1,4-4094
Bridge        address 0011.2233.4402 priority    32768 (32768 sysid 0)
Root          address 0011.2233.4401 priority    32768 (32768 sysid 0)
Regional Root address 0011.2233.4401 priority    32768 (32768 sysid 0)
```

Interface	Role	State	Cost	Prio	Nbr	Type
Et1	root	forwarding	2000	128.1	P2p	
Et2	alternate	discarding	2000	128.2	P2p	
Et3	designated	forwarding	2000	128.3	P2p	
Et4	designated	forwarding	2000	128.4	P2p	

```
##### MST2 vlans mapped: 2
```

```
Bridge        address 0011.2233.4402 priority    8194 (8192 sysid 2)
Root          this switch for MST2
```

Interface	Role	State	Cost	Prio	Nbr	Type
Et1	designated	forwarding	2000	128.1	P2p	
Et2	designated	forwarding	2000	128.2	P2p	
Et3	designated	forwarding	2000	128.3	P2p	
Et4	designated	forwarding	2000	128.4	P2p	

```
##### MST3 vlans mapped: 3
```

```
Bridge        address 0011.2233.4402 priority    32771 (32768 sysid 3)
Root          address 0011.2233.4401 priority    32771 (32768 sysid 3)
```

Interface	Role	State	Cost	Prio	Nbr	Type
Et1	root	forwarding	2000	128.1	P2p	
Et2	alternate	discarding	2000	128.2	P2p	
Et3	designated	forwarding	2000	128.3	P2p	
Et4	designated	forwarding	2000	128.4	P2p	

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	<p>Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 990.</p> <p><i>See also</i> Arista User Manual v. 4.12.3 (7/17/13), at 867-68; Arista User Manual, v. 4.11.1 (1/11/13), at 685-86; Arista User Manual v. 4.10.3 (10/22/12), at 599-600; Arista User Manual v. 4.9.3.2 (5/3/12), at 518-19; Arista User Manual v. 4.8.2 (11/18/11), at 392-393; Arista User Manual v.</p>
<p>This example shows how to display information about the MST configuration:</p> <pre>switch)# show spanning-tree mst configuration</pre> <pre>Name: [mst-bldg-sj6/3] Revision: 1 Instances Configured: 3 Instance Vlans mapped ----- 0 1 2000 2-2000 4094 2001-4094 -----</pre> <p>This example shows how to display the MD5 digest included in the current MST configuration:</p> <pre>switch)# show spanning-tree mst configuration digest</pre> <pre>Name [mst-config] Revision 10 Instances configured 25 Digest 0x40D5ECA178C657835C83BBBCB16723192 Pre-std Digest 0x27BF112A75B72781ED928D9EC5BB4251</pre> <p>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 81.</p>	<p>Examples</p> <ul style="list-style-type: none"> This command displays the MST region's VLAN-to-instance map. <pre>switch>show spanning-tree mst configuration</pre> <pre>Name [] Revision 0 Instances configured 3 Instance Vlans mapped ----- 0 1,4-4094 2 2 3 3 ----- switch></pre> <ul style="list-style-type: none"> This command displays the MST region's configuration digest. <pre>switch>show spanning-tree mst configuration digest</pre> <pre>Name [] Revision 0 Instances configured 1 Digest 0xAC36177F50283CD4B83821D8AB26DE62 switch></pre> <p>Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 991.</p> <p><i>See also</i> Arista User Manual v. 4.12.3 (7/17/13), at 869; Arista User Manual, v. 4.11.1 (1/11/13), at 687; Arista User Manual v. 4.10.3 (10/22/12), at 601; Arista User Manual v. 4.9.3.2 (5/3/12), at 520; Arista User Manual v. 4.8.2 (11/18/11), at 394; Arista User Manual v. 4.7.3 (7/18/11), at 283.</p>

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<div>Examples</div> <div>This example shows how to display information for the root bridge:</div> <div><pre>switch(config)# show spanning-tree root</pre></div> <div><table><thead><tr><th>MST Instance</th><th>Root ID</th><th>Cost</th><th>Time</th><th>Age</th><th>Dly</th><th>Root Port</th></tr></thead><tbody><tr><td>MST0000</td><td>32768 0018.bad7.fc15</td><td>0</td><td>2</td><td>20</td><td>15</td><td>This bridge is root</td></tr></tbody></table></div> <div>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 82-83.</div>	MST Instance	Root ID	Cost	Time	Age	Dly	Root Port	MST0000	32768 0018.bad7.fc15	0	2	20	15	This bridge is root	<div>Examples</div> <div><ul style="list-style-type: none">This command displays a table of root bridge information.</div> <div><pre>switch>show spanning-tree root</pre></div> <div><table><thead><tr><th>Instance</th><th>Priority</th><th>MAC addr</th><th>Root Cost</th><th>Hello Time</th><th>Max Age</th><th>Fwd Dly</th><th>Root Port</th></tr></thead><tbody><tr><td>MST0</td><td>32768</td><td>001c.7301.23de</td><td>0</td><td>2</td><td>20</td><td>15</td><td>Po937</td></tr><tr><td>MST101</td><td>32869</td><td>001c.7301.23de</td><td>3998</td><td>0</td><td>0</td><td>0</td><td>Po909</td></tr><tr><td>MST102</td><td>32870</td><td>001c.7301.23de</td><td>3998</td><td>0</td><td>0</td><td>0</td><td>Po911</td></tr></tbody></table><pre>switch></pre></div> <div>Arista User Manual v. 4.12.4 (9/16/2013), at 894. Arista User Manual v. 4.13.6F (4/14/2014), at 958. Arista User Manual v. 4.13.7M (6/17/2014), at 976. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 994. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 996. Arista User Manual v. 4.14.6M (1/19/2015), at 992. Arista User Manual v. 4.15.0F (4/18/2015), at 1000. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 992.</div>	Instance	Priority	MAC addr	Root Cost	Hello Time	Max Age	Fwd Dly	Root Port	MST0	32768	001c.7301.23de	0	2	20	15	Po937	MST101	32869	001c.7301.23de	3998	0	0	0	Po909	MST102	32870	001c.7301.23de	3998	0	0	0	Po911
MST Instance	Root ID	Cost	Time	Age	Dly	Root Port																																									
MST0000	32768 0018.bad7.fc15	0	2	20	15	This bridge is root																																									
Instance	Priority	MAC addr	Root Cost	Hello Time	Max Age	Fwd Dly	Root Port																																								
MST0	32768	001c.7301.23de	0	2	20	15	Po937																																								
MST101	32869	001c.7301.23de	3998	0	0	0	Po909																																								
MST102	32870	001c.7301.23de	3998	0	0	0	Po911																																								
<div><pre>switch# show vlan summary</pre></div> <div><pre>Number of existing VLANs : 9 Number of existing user VLANs : 9 Number of existing extended VLANs : 0</pre></div> <div>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 94.</div>	<div>Example</div> <div><ul style="list-style-type: none">This command displays the number of VLANs on the switch.</div> <div><pre>switch>show vlan summary</pre></div> <div><pre>Number of existing VLANs : 18</pre></div> <div><pre>switch></pre></div> <div>Arista User Manual v. 4.12.4 (9/16/2013), at 658. Arista User Manual v. 4.13.6F (4/14/2014), at 766. Arista User Manual v. 4.13.7M (6/17/2014), at 784. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 791. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 793. Arista User Manual v. 4.14.6M (1/19/2015), at 789. Arista User Manual v. 4.15.0F (4/18/2015), at 797.</div>																																														

Cisco	Arista																																																												
	Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 789.																																																												
<div>Examples</div> <div>This example shows how to display information about all private VLANs on the device:</div> <div>switch(config)# show vlan private-vlan</div> <div><table><tr><th>Primary</th><th>Secondary</th><th>Type</th><th>Ports</th></tr><tr><td>200</td><td>201</td><td>isolated</td><td>Eth2/26, Eth2/27</td></tr><tr><td>200</td><td>202</td><td>community</td><td>Eth2/26, Eth2/28</td></tr></table></div> <div>Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference (Feb. 2013), at 100.</div>	Primary	Secondary	Type	Ports	200	201	isolated	Eth2/26, Eth2/27	200	202	community	Eth2/26, Eth2/28	<div>Example</div> <div><ul style="list-style-type: none">This command displays the private VLANs.</div> <div>switch>show vlan private-vlan</div> <div><table><tr><th>Primary</th><th>Secondary</th><th>Type</th><th>Ports</th></tr><tr><td>5</td><td>25</td><td>isolated</td><td></td></tr><tr><td>5</td><td>26</td><td>isolated</td><td></td></tr><tr><td>7</td><td>31</td><td>community</td><td></td></tr><tr><td>7</td><td>32</td><td>isolated</td><td></td></tr></table></div> <div>switch></div> <div>Arista User Manual v. 4.12.4 (9/16/2013), at 657. Arista User Manual v. 4.13.6F (4/14/2014), at 765. Arista User Manual v. 4.13.7M (6/17/2014), at 783. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 790. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 792. Arista User Manual v. 4.14.6M (1/19/2015), at 788. Arista User Manual v. 4.15.0F (4/18/2015), at 796. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 788.</div>	Primary	Secondary	Type	Ports	5	25	isolated		5	26	isolated		7	31	community		7	32	isolated																													
Primary	Secondary	Type	Ports																																																										
200	201	isolated	Eth2/26, Eth2/27																																																										
200	202	community	Eth2/26, Eth2/28																																																										
Primary	Secondary	Type	Ports																																																										
5	25	isolated																																																											
5	26	isolated																																																											
7	31	community																																																											
7	32	isolated																																																											
<div>BGP table version is 10, local router ID is 3.3.3.3 Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist Origin codes: i - IGP, e - EGP, ? - incomplete, - multipath</div> <div><table><tr><th>Network</th><th>Next Hop</th><th>Metric</th><th>LocPrf</th><th>Weight</th><th>Path</th></tr><tr><td>* i200.0.1.100/32</td><td>201.0.25.1</td><td></td><td>100</td><td>100</td><td>6553601 i</td></tr><tr><td>*>e</td><td>201.0.13.1</td><td></td><td></td><td>0</td><td>6553601 i</td></tr><tr><td>* i200.0.2.100/32</td><td>201.0.25.1</td><td></td><td>100</td><td>100</td><td>6553601 i</td></tr><tr><td>*>e</td><td>201.0.13.1</td><td></td><td></td><td>0</td><td>6553601 i</td></tr><tr><td>*>i200.0.3.100/32</td><td>0.0.0.0</td><td></td><td>100</td><td>32768</td><td>i</td></tr></table></div> <div>Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference (August 2013), at 401.</div>	Network	Next Hop	Metric	LocPrf	Weight	Path	* i200.0.1.100/32	201.0.25.1		100	100	6553601 i	*>e	201.0.13.1			0	6553601 i	* i200.0.2.100/32	201.0.25.1		100	100	6553601 i	*>e	201.0.13.1			0	6553601 i	*>i200.0.3.100/32	0.0.0.0		100	32768	i	<div>switch>show ip bgp neighbors 10.14.4.4 advertised-routes regexp _64502_</div> <div>BGP routing table information for VRF default Router identifier 172.24.78.191, local AS number 64498 Route status codes: s - suppressed, * - valid, > - active, E - ECMP head, e - ECMP S - Stale Origin codes: i - IGP, e - EGP, ? - incomplete AS Path Attributes: Or-ID - Originator ID, C-LST - Cluster List, LL Nexthop - Link Local Nexthop</div> <div><table><tr><th>Network</th><th>Next Hop</th><th>Metric</th><th>LocPref</th><th>Weight</th><th>Path</th></tr><tr><td>* > 10.99.31.0/24</td><td>10.88.202.1</td><td>333</td><td>100</td><td>-</td><td>(64502 64503) 99 i</td></tr><tr><td>* > 10.99.41.0/24</td><td>10.88.202.1</td><td>333</td><td>100</td><td>-</td><td>(64502 64503) 99 i</td></tr><tr><td>* > 10.99.99.0/24</td><td>10.88.202.1</td><td>333</td><td>100</td><td>-</td><td>(64502 64504) 99 i</td></tr></table></div> <div>Arista User Manual v. 4.13.6F (4/14/2014), at 1587. Arista User Manual v. 4.13.7M (6/17/2014), at 1605. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 1637.</div>	Network	Next Hop	Metric	LocPref	Weight	Path	* > 10.99.31.0/24	10.88.202.1	333	100	-	(64502 64503) 99 i	* > 10.99.41.0/24	10.88.202.1	333	100	-	(64502 64503) 99 i	* > 10.99.99.0/24	10.88.202.1	333	100	-	(64502 64504) 99 i
Network	Next Hop	Metric	LocPrf	Weight	Path																																																								
* i200.0.1.100/32	201.0.25.1		100	100	6553601 i																																																								
*>e	201.0.13.1			0	6553601 i																																																								
* i200.0.2.100/32	201.0.25.1		100	100	6553601 i																																																								
*>e	201.0.13.1			0	6553601 i																																																								
*>i200.0.3.100/32	0.0.0.0		100	32768	i																																																								
Network	Next Hop	Metric	LocPref	Weight	Path																																																								
* > 10.99.31.0/24	10.88.202.1	333	100	-	(64502 64503) 99 i																																																								
* > 10.99.41.0/24	10.88.202.1	333	100	-	(64502 64503) 99 i																																																								
* > 10.99.99.0/24	10.88.202.1	333	100	-	(64502 64504) 99 i																																																								

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	Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1651. Arista User Manual v. 4.14.6M (1/19/2015), at 1647. Arista User Manual v. 4.15.0F (4/18/2015), at 1655. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1649.																																			
<p>This example shows how to display information about IGMP snooping queriers:</p> <pre>switch(config)# show ip igmp snooping querier</pre> <table><thead><tr><th>Vlan</th><th>IP Address</th><th>Version</th><th>Port</th></tr></thead><tbody><tr><td>1</td><td>172.20.50.11</td><td>v3</td><td>fa2/1</td></tr><tr><td>2</td><td>172.20.40.20</td><td>v2</td><td>Router</td></tr></tbody></table> <pre>switch(config)#</pre>	Vlan	IP Address	Version	Port	1	172.20.50.11	v3	fa2/1	2	172.20.40.20	v2	Router	<p>Example</p> <ul style="list-style-type: none">This command displays the querier IP address, version, and port servicing each VLAN. <pre>switch>show ip igmp snooping querier</pre> <table><thead><tr><th>Vlan</th><th>IP Address</th><th>Version</th><th>Port</th></tr></thead><tbody><tr><td>1</td><td>172.17.0.37</td><td>v2</td><td>Po1</td></tr><tr><td>20</td><td>172.17.20.1</td><td>v2</td><td>Po1</td></tr><tr><td>26</td><td>172.17.26.1</td><td>v2</td><td>Cpu</td></tr><tr><td>2028</td><td>172.17.255.29</td><td>v2</td><td>Po1</td></tr></tbody></table> <pre>switch></pre>	Vlan	IP Address	Version	Port	1	172.17.0.37	v2	Po1	20	172.17.20.1	v2	Po1	26	172.17.26.1	v2	Cpu	2028	172.17.255.29	v2	Po1			
Vlan	IP Address	Version	Port																																	
1	172.20.50.11	v3	fa2/1																																	
2	172.20.40.20	v2	Router																																	
Vlan	IP Address	Version	Port																																	
1	172.17.0.37	v2	Po1																																	
20	172.17.20.1	v2	Po1																																	
26	172.17.26.1	v2	Cpu																																	
2028	172.17.255.29	v2	Po1																																	
Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference (August 2013), at 50.	Arista User Manual v. 4.12.4 (9/16/2013), at 1560. Arista User Manual v. 4.13.6F (4/14/2014), at 1790. Arista User Manual v. 4.13.7M (6/17/2014), at 1755. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 1860. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1874. Arista User Manual v. 4.14.6M (1/19/2015), at 1870. Arista User Manual v. 4.15.0F (4/18/2015), at 1878. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1872.																																			
<p>Examples</p> <p>This example shows how to use the show port-security command to view the status of the port security feature on a device:</p> <pre>switch# show port-security</pre> <p>Total Secured Mac Addresses in System (excluding one mac per port) : 0 Max Addresses limit in System (excluding one mac per port) : 8192</p> <table><thead><tr><th>Secure Port</th><th>MaxSecureAddr (Count)</th><th>CurrentAddr (Count)</th><th>SecurityViolation (Count)</th><th>Security Action</th></tr></thead><tbody><tr><td>Ethernet1/4</td><td>5</td><td>1</td><td>0</td><td>Shutdown</td></tr></tbody></table> <pre>switch#</pre>	Secure Port	MaxSecureAddr (Count)	CurrentAddr (Count)	SecurityViolation (Count)	Security Action	Ethernet1/4	5	1	0	Shutdown	<pre>switch(config)#clear mac address-table dynamic interface ethernet 1 /</pre> <pre>switch(config)#show port-security</pre> <table><thead><tr><th>Secure Port</th><th>MaxSecureAddr (Count)</th><th>CurrentAddr (Count)</th><th>SecurityViolation (Count)</th><th>Security Action</th></tr></thead><tbody><tr><td>Et7</td><td>2</td><td>2</td><td>0</td><td>Shutdown</td></tr></tbody></table> <p>Total Addresses in System: 1</p> <pre>switch(config)#show port-security address</pre> <p>Secure Mac Address Table</p> <table><thead><tr><th>Vlan</th><th>Mac Address</th><th>Type</th><th>Ports</th><th>Remaining Age (mins)</th></tr></thead><tbody><tr><td>10</td><td>0034.24c2.8f11</td><td>SecureConfigured</td><td>Et7</td><td>N/A</td></tr><tr><td>10</td><td>4464.842d.17ce</td><td>SecureConfigured</td><td>Et7</td><td>N/A</td></tr></tbody></table> <p>Total Mac Addresses for this criterion: 2</p> <pre>switch(config)#</pre>	Secure Port	MaxSecureAddr (Count)	CurrentAddr (Count)	SecurityViolation (Count)	Security Action	Et7	2	2	0	Shutdown	Vlan	Mac Address	Type	Ports	Remaining Age (mins)	10	0034.24c2.8f11	SecureConfigured	Et7	N/A	10	4464.842d.17ce	SecureConfigured	Et7	N/A
Secure Port	MaxSecureAddr (Count)	CurrentAddr (Count)	SecurityViolation (Count)	Security Action																																
Ethernet1/4	5	1	0	Shutdown																																
Secure Port	MaxSecureAddr (Count)	CurrentAddr (Count)	SecurityViolation (Count)	Security Action																																
Et7	2	2	0	Shutdown																																
Vlan	Mac Address	Type	Ports	Remaining Age (mins)																																
10	0034.24c2.8f11	SecureConfigured	Et7	N/A																																
10	4464.842d.17ce	SecureConfigured	Et7	N/A																																
Cisco Nexus 7000 Series NX-OS Security Command Reference (August 2013), at SEC-661.																																				

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<div>Examples</div> <div>This example shows how to use the <code>show port-security address</code> command to view information about all MAC addresses secured by port security:</div> <div>switch# show port-security address</div> <div>Total Secured Mac Addresses in System (excluding one mac per port) : 0 Max Addresses limit in System (excluding one mac per port) : 8192</div> <div>-----</div> <div>Secure Mac Address Table</div> <div><table><tr><th>Vlan</th><th>Mac Address</th><th>Type</th><th>Ports</th><th>Remaining Age (mins)</th></tr><tr><td>1</td><td>0054.AAB3.770F</td><td>STATIC</td><td>port-channel1</td><td>0</td></tr><tr><td>1</td><td>00EE.378A.ABCE</td><td>STATIC</td><td>Ethernet1/4</td><td>0</td></tr></table></div> <div>-----</div> <div>switch#</div> <div>This example shows how to use the <code>show port-security address</code> command to view the MAC addresses secured by the port security feature on the Ethernet 1/4 interface:</div> <div>switch# show port-security address interface ethernet 1/4</div> <div>Secure Mac Address Table</div> <div><table><tr><th>Vlan</th><th>Mac Address</th><th>Type</th><th>Ports</th><th>Remaining Age (mins)</th></tr><tr><td>1</td><td>00EE.378A.ABCE</td><td>STATIC</td><td>Ethernet1/4</td><td>0</td></tr></table></div> <div>-----</div> <div>switch#</div>	Vlan	Mac Address	Type	Ports	Remaining Age (mins)	1	0054.AAB3.770F	STATIC	port-channel1	0	1	00EE.378A.ABCE	STATIC	Ethernet1/4	0	Vlan	Mac Address	Type	Ports	Remaining Age (mins)	1	00EE.378A.ABCE	STATIC	Ethernet1/4	0	<div>Arista User Manual v. 4.12.4 (9/16/2013), at 520.</div> <div>Arista User Manual v. 4.13.6F (4/14/2014), at 624.</div> <div>Arista User Manual v. 4.13.7M (6/17/2014), at 624.</div> <div>Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 632.</div> <div>Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 634.</div> <div>Arista User Manual v. 4.14.6M (1/19/2015), at 630.</div> <div>Arista User Manual v. 4.15.0F (4/18/2015), at 638.</div> <div>Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 630.</div> <div>switch>show port-security address</div> <div>Secure Mac Address Table</div> <div><table><tr><th>Vlan</th><th>Mac Address</th><th>Type</th><th>Ports</th><th>Remaining Age (mins)</th></tr><tr><td>10</td><td>164f.29ae.4e14</td><td>SecureConfigured</td><td>Et7</td><td>N/A</td></tr><tr><td>10</td><td>164f.29ae.4f11</td><td>SecureConfigured</td><td>Et7</td><td>N/A</td></tr><tr><td>10</td><td>164f.320a.3a11</td><td>SecureConfigured</td><td>Et7</td><td>N/A</td></tr></table></div> <div>-----</div> <div>Total Mac Addresses for this criterion: 3</div> <div>switch></div> <div>Arista User Manual v. 4.12.4 (9/16/2013), at 581.</div> <div>Arista User Manual v. 4.13.6F (4/14/2014), at 686.</div> <div>Arista User Manual v. 4.13.7M (6/17/2014), at 690.</div> <div>Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 698.</div> <div>Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 700.</div> <div>Arista User Manual v. 4.14.6M (1/19/2015), at 696.</div> <div>Arista User Manual v. 4.15.0F (4/18/2015), at 704.</div> <div>Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 696.</div>	Vlan	Mac Address	Type	Ports	Remaining Age (mins)	10	164f.29ae.4e14	SecureConfigured	Et7	N/A	10	164f.29ae.4f11	SecureConfigured	Et7	N/A	10	164f.320a.3a11	SecureConfigured	Et7	N/A
Vlan	Mac Address	Type	Ports	Remaining Age (mins)																																										
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<p>Examples</p> <p>This example shows how to display the EEE status on an interface:</p> <pre> switch# show interface ethernet2/6 Ethernet2/6 is down (Link not connected) admin state is up, Dedicated Interface Hardware: 10000 Ethernet, address: 0022.5579.de41 (bia 001b.54c1.af5d) MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, medium is broadcast auto-duplex, auto-speed, media type is 10G Beacon is turned off Auto-Negotiation is turned off Input flow-control is off, output flow-control is off Auto-mdix is turned off Rate mode is shared Switchport monitor is off EtherType is 0x8100 EEE (efficient-ethernet) : n/a Last link flapped never Last clearing of "show interface" counters never 0 interface resets 30 seconds input rate 0 bits/sec, 0 packets/sec 30 seconds output rate 0 bits/sec, 0 packets/sec Load-Interval #2: 5 minute (300 seconds) </pre> <p>Cisco Nexus 7000 Series NX-OS System Management Command Reference (August 2013), at 514.</p>	<pre> switch(config)#interface ethernet 7 switch(config-if-Et7)#mac-address 001c.2804.17e1 switch(config-if-Et7)#show interface ethernet 7 Ethernet3 is up, line protocol is up (connected) Hardware is Ethernet, address is 001c.2804.17e1 (bia 001c.7312.02e2) Description: B.e45 MTU 9212 bytes, BW 10000000 Kbit Full-duplex, 10Gb/s, auto negotiation: off Last clearing of "show interface" counters never 5 seconds input rate 7.84 kbps (0.0% with framing), 10 packets/sec 5 seconds output rate 270 kbps (0.0% with framing), 24 packets/sec 1363799 packets input, 222736140 bytes Received 0 broadcasts, 290904 multicast 0 runs, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol 0 PAUSE input 2264927 packets output, 2348747214 bytes Sent 0 broadcasts, 28573 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred 0 PAUSE output switch(config-if-Et7)# </pre> <p>Arista User Manual v. 4.12.4 (9/16/2013), at 390. Arista User Manual v. 4.13.6F (4/14/2014), at 429. Arista User Manual v. 4.13.7M (6/17/2014), at 429. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 437. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 439. Arista User Manual v. 4.14.6M (1/19/2015), at 435. Arista User Manual v. 4.15.0F (4/18/2015), at 443. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 435.</p>

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<p>Examples</p> <p>This example shows how to display the PTP clock information:</p> <pre> switch# show ptp clock PTP Device Type: Boundary clock Clock Identity: 0:18:ba:ff:ff:d8: e:17 Clock Domain: 0 Number of PTP ports: 2 Priority1: 255 Priority2: 255 Clock Quality: Class: 248 Accuracy: 254 Offset (log variance): 65535 Offset From Master: 0 Mean Path Delay: 0 Steps removed: 1 Local clock time: Sun Jan 15 20:57:29 2011 </pre> <p>Cisco Nexus 7000 Series NX-OS System Management Command Reference (August 2013), at 601.</p>	<p>The show ptp clock command displays the PTP clock information:</p> <pre> switch# show ptp clock PTP Mode: Boundary Clock Clock Identity: 0x00:1c:73:ff:ff:1e:83:24 Clock Domain: 1 Number of PTP ports: 24 Priority1: 128 Priority2: 128 Clock Quality: Class: 248 Accuracy: 0x30 Offset Scaled Log Variance: 0xffff Offset From Master: 0 Mean Path Delay: 0 Steps Removed: 0 switch# </pre> <p>Arista User Manual v. 4.12.4 (9/16/2013), at 233. Arista User Manual v. 4.13.6F (4/14/2014), at 267. Arista User Manual v. 4.13.7M (6/17/2014), at 267. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 275. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 277. Arista User Manual v. 4.14.6M (1/19/2015), at 273. Arista User Manual v. 4.15.0F (4/18/2015), at 257. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 257.</p>

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<p>Examples</p> <p>This example shows how to display information about the parent and grand n</p> <pre> switch# show ptp parent Parent Clock: Parent Clock Identity: 0:18:ba:ff:ff:d8: e:16 Parent Port Number: 1546 Observed Parent Offset (log variance): N/A Observed Parent Clock Phase Change Rate: N/A Grandmaster Clock: Grandmaster Clock Identity: 0:18:ba:ff:ff:d8: e:16 Grandmaster Clock Quality: Class: 248 Accuracy: 254 Offset (log variance): 65535 Priority1: 255 Priority2: 255 </pre> <p>Cisco Nexus 7000 Series NX-OS System Management Command Reference (August 2013), at 607.</p>	<p>Precision Time Protocol (PTP) Clock</p> <pre> switch# show ptp parent Parent Clock: Parent Clock Identity: 0x00:1c:73:ff:ff:00:72:40 Parent Port Number: 0 Parent IP Address: N/A Observed Parent Offset (log variance): N/A Observed Parent Clock Phase Change Rate: N/A Grandmaster Clock: Grandmaster Clock Identity: 0x00:1c:73:ff:ff:00:72:40 Grandmaster Clock Quality: Class: 248 Accuracy: 0x30 Offset Scaled Log Variance: 0xffff Priority1: 128 Priority2: 128 switch# </pre> <p>Arista User Manual v. 4.12.4 (9/16/2013), at 233-234. Arista User Manual v. 4.13.6F (4/14/2014), at 267. Arista User Manual v. 4.13.7M (6/17/2014), at 267. Arista User Manual v. 4.14.3F – Rev. 2 (10/2/2014), at 275. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 277. Arista User Manual v. 4.14.6M (1/19/2015), at 273. Arista User Manual v. 4.15.0F (4/18/2015), at 257. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 257.</p>
<p>Examples</p> <p>This example shows how to display the PTP clock properties:</p> <pre> switch# show ptp time-property PTP CLOCK TIME PROPERTY: Current UTC Offset valid: 0 Current UTC Offset: 33 Leap59: 0 Leap61: 0 Time Traceable: 0 Frequency Traceable: 0 PTP Timescale: 0 Time Source: 0xA0 (internal Oscillator) </pre> <p>Cisco Nexus 7000 Series NX-OS System Management Command</p>	<ul style="list-style-type: none"> The <code>show ptp time-property</code> command displays the Precision Time Protocol (PTP) clock properties. <pre> switch# show ptp time-property Current UTC offset valid: False Current UTC offset: 0 Leap 59: False Leap 61: False Time Traceable: False Frequency Traceable: False PTP Timescale: False Time Source: 0x0 switch# </pre> <p>Arista User Manual v. 4.12.4 (9/16/2013), at 234. Arista User Manual v. 4.13.6F (4/14/2014), at 267-268.</p>

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<p>Reference (August 2013), at 611.</p>	<p>Arista User Manual v. 4.13.7M (6/17/2014), at 267-268. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 275-76. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 277. Arista User Manual v. 4.14.6M (1/19/2015), at 273. Arista User Manual v. 4.15.0F (4/18/2015), at 257. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 257.</p>
<p>Examples</p> <p>This example shows how to display the SNMP information:</p> <pre>switch(config)# show snmp sys contact: sys location: anyplace, Anywhere 0 SNMP packets input 0 Bad SNMP versions 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 0 Number of requested variables 0 Number of altered variables 0 Get-request PDUs 0 Get-next PDUs 0 Set-request PDUs 0 SNMP packets output 0 Too big errors 0 No such name errors 0 Bad values errors 0 General errors</pre> <p>Cisco Nexus 7000 Series NX-OS System Management Command Reference (August 2013), at 634.</p>	<pre>switch(config)#snmp-server chassis-id xyz-1234 switch(config)#show snmp Chassis: xyz-1234 <---chassis ID 8 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 8 Number of requested variables 0 Number of altered variables 4 Get-request PDUs 4 Get-next PDUs 0 Set-request PDUs 21 SNMP packets output 0 Too big errors 0 No such name errors 0 Bad value errors 0 General errors 8 Response PDUs 0 Trap PDUs SNMP logging: enabled Logging to taccon.162 SNMP agent enabled switch(config)#</pre> <p>Arista User Manual v. 4.12.4 (9/16/2013), at 1705-1706. Arista User Manual v. 4.13.6F (4/14/2014), at 1895-1896. Arista User Manual v. 4.13.7M (6/17/2014), at 1923-1924. Arista User Manual v. 4.14.3F (Rev. 2) (10/2/2014), at 1967-68 Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1981-1982.</p>

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	<p>Arista User Manual v. 4.14.6M (1/19/2015), at 1977-1978. Arista User Manual v. 4.15.0F (4/18/2015), at 1985-1986 Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1979-1980.</p>
<p>Examples This example shows how to display the SNMP engine ID:</p> <pre>switch(config)# show snmp engineID Local SNMP engineID: [Hex] 80000009030005300A0B0C [Dec] 128,000,000,009,003,000,005,048,010,011,012</pre> <p>Cisco Nexus 7000 Series NX-OS System Management Command Reference, Release 5.x (April 2010), at 533.</p>	<ul style="list-style-type: none"> This command displays the ID of the local SNMP engine. <pre>switch> show snmp engineID Local SNMP EngineID: f5717f001c730436d700 switch></pre> <p>Arista User Manual v. 4.11.1 – Rev 2 (1/22/2013), at 1363. Arista User Manual v. 4.11.2.1 (3/1/2013), at 1443. Arista User Manual v. 4.12.4 (9/16/2013), at 1716. Arista User Manual v. 4.13.6F (4/14/2014), at 1906. Arista User Manual v. 4.13.7M (6/17/2014), at 1934. Arista User Manual v. 4.14.3F – Rev. 2 (October 2, 2014), at 1978. Arista User Manual v. 4.14.5F – Rev. 2 (12/22/2014), at 1991. Arista User Manual v. 4.14.6M (1/19/2015), at 1987. Arista User Manual v. 4.15.0F (4/18/2015), at 1995. Arista User Manual v. 4.15.0F – Rev. 2 (4/27/2015), at 1989.</p>
<p>Switch(config)#help</p> <p>Help may be requested at any point in a command by entering a question mark '?'. If nothing matches, the help list will be empty and you must backup until entering a '?' shows the available options.</p> <p>Two styles of help are provided:</p> <p>Full help is available when you are ready to enter a command argument (e.g. 'show ?') and describes each possible argument</p> <p>Partial help is provided when an abbreviated argument is entered</p>	<p>localhost(config)#help</p> <p>Help may be requested at any point in a command by entering a question mark '?'. If nothing matches, the help list will be empty and you must backup until entering a '?' shows the available options.</p> <p>Two styles of help are provided:</p> <ol style="list-style-type: none"> 1. Full help is available when you are ready to enter a command argument (e.g. 'show ?') and describes each possible argument. <p>Partial help is provided when an abbreviated argument is entered and</p>

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and you want to know what arguments match the input (e.g. 'show	you want to know what arguments match the input (e.g. 'show pr?'.)
<p>Switch#show snmp</p> <ul style="list-style-type: none"> 0 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 0 Number of requested variables 0 Number of altered variables 0 Get-request PDUs 0 Get-next PDUs 0 Set-request PDUs 0 Input queue packet drops (Maximum queue size 1000) 0 SNMP packets output 0 Too big errors (Maximum packet size 1500) 0 No such name errors 0 Bad values errors 0 General errors 0 Response PDUs 0 Trap PDUs <p>Chassis: CAT1552S66E</p> <p>SNMP global trap: disabled</p> <p>SNMP agent enabled</p>	<p>localhost#show snmp</p> <p>Chassis: HSH16130550</p> <ul style="list-style-type: none"> 0 SNMP packets input 0 Bad SNMP version errors 0 Unknown community name 0 Illegal operation for community name supplied 0 Encoding errors 0 Number of requested variables 0 Number of altered variables 0 Get-request PDUs 0 Get-next PDUs 0 Set-request PDUs <p>0 SNMP packets output</p> <ul style="list-style-type: none"> 0 Too big errors 0 No such name errors 0 Bad value errors 0 General errors 0 Response PDUs 0 Trap PDUs <p>Access Control</p> <ul style="list-style-type: none"> 0 Users 1 Groups 0 Views <p>SNMP logging: disabled</p> <p>SNMP agent enabled in VRFs: default</p> <p>1 warnings</p> <p>! Group "tech-sup" of user "tech-1" is not configured</p>
<p>Switch#show ip route</p> <p>Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP</p> <p>D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area</p>	<p>localhost#show ip route</p> <p>Codes: C - connected, S - static, K - kernel,</p> <p>O - OSPF, IA - OSPF inter area, E1 - OSPF external type 1,</p>

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N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route Gateway of last resort is not set	E2 - OSPF external type 2, N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2, B I - iBGP, B E - eBGP, R - RIP, I - ISIS, A B - BGP Aggregate, A O - OSPF Summary, NG - Nexthop Group Static Route Gateway of last resort is not set
Switch#show ip route Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, * - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route Gateway of last resort is not set	localhost#show ip route Codes: C - connected, S - static, K - kernel, O - OSPF, IA - OSPF inter area, E1 - OSPF external type 1, E2 - OSPF external type 2, N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2, B I - iBGP, B E - eBGP, R - RIP, I - ISIS, A B - BGP Aggregate, A O - OSPF Summary, NG - Nexthop Group Static Route Gateway of last resort is not set
Switch#show ip igmp snooping Global IGMP Snooping configuration: ----- IGMP snooping : Enabled IGMPv3 snooping : Enabled Report suppression : Enabled TCN solicit query : Disabled TCN flood query count : 2 Last Member Query Interval : 1000 Vlan 1: ----- IGMP snooping : Enabled CAPWAP enabled : Disabled IGMPv2 immediate leave : Disabled	localhost#show ip igmp snooping Global IGMP Snooping configuration: ----- IGMP snooping : Enabled Robustness variable : 2 Report flooding : Disabled Vlan 1 : ----- IGMP snooping : Enabled IGMPv2 immediate leave : Enabled Multicast router learning mode : pim-dvmrp IGMP max group limit : No limit set Recent attempt to exceed limit : No

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Explicit host tracking : Enabled Multicast router learning mode : pim-dvmrp CGMP interoperability mode : IGMP_ONLY Last Member Query Interval : 1000	Report flooding : Disabled IGMP snooping pruning active : False Flooding traffic to VLAN : True
Switch#show interfaces FastEthernet 1 FastEthernet1 is down, line protocol is down Hardware is Fast Ethernet for out of band management, address is c464.1342.efbf (bia c464.1342.efbf) Internet address is 10.1.1.35/24 MTU 1500 bytes, BW 100000 Kbit, DLY 100 usec, reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, loopback not set Keepalive set (10 sec) Unknown duplex, Unknown Speed, 100BaseTX/FX ARP type: ARPA, ARP Timeout 04:00:00 Last input never, output never, output hang never Last clearing of "show interface" counters never Input queue: 0/75/0/0 (size/max/drops/flushes); Total output drops: 0 Queueing strategy: fifo Output queue: 0/40 (size/max) 5 minute input rate 0 bits/sec, 0 packets/sec 5 minute output rate 0 bits/sec, 0 packets/sec 0 packets input, 0 bytes Received 0 broadcasts (0 IP multicasts) 0 runs, 0 giants, 0 throttles 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored 0 watchdog 0 input packets with dribble condition detected 0 packets output, 0 bytes, 0 underruns 0 output errors, 0 collisions, 2 interface resets 0 babbles, 0 late collision, 0 deferred	localhost#show interface ethernet 1 Ethernet1 is down, line protocol is down (notconnect) Hardware is Ethernet, address is 444c.a88f.f7fa (bia 444c.a88f.f7fa) Ethernet MTU 9214 bytes Auto-duplex, Auto-speed, auto negotiation: on, uni-link: unknown Down 35 seconds 2 link status changes since last clear Last clearing of "show interface" counters never 5 minutes input rate 0 bps (- with framing overhead), 0 packets/sec 5 minutes output rate 0 bps (- with framing overhead), 0 packets/sec 0 packets input, 0 bytes Received 0 broadcasts, 0 multicast 0 runs, 0 giants 0 input errors, 0 CRC, 0 alignment, 0 symbol, 0 input discards 0 PAUSE input 0 packets output, 0 bytes Sent 0 broadcasts, 0 multicast 0 output errors, 0 collisions 0 late collision, 0 deferred, 0 output discards 0 PAUSE output

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0 lost carrier, 0 no carrier 0 output buffer failures, 0 output buffers swapped out	